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Notice of Allowability	Application No.	Applicant(s)	
	10/767,665	LIN, CHING-WEI	
	Examiner	Art Unit	
	Stenhen W. Smoot	2813	
The MAILING DATE of this communication approach claims being allowable, PROSECUTION ON THE MERITS IS nerewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT Report the Office or upon petition by the applicant. See 37 CFR 1.313.  1. This communication is responsive to applicant's amendment of the allowed claim(s) is/are 5-11 and 13-21.  3. Acknowledgment is made of a claim for foreign priority unerally as a communication of the priority documents have a communication of the certified copies of the priority documents have a communicational Bureau (PCT Rule 17.2(a)).  * Certified copies not received:	s (OR REMAINS) CLOSED in ) or other appropriate communition is sufficient on the sufficient of the suf	this application. If not included nication will be mailed in due course. ubject to withdrawal from issue at the	initiati∨e
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.  4.   A SUBSTITUTE OATH OR DECLARATION must be submin INFORMAL PATENT APPLICATION (PTO-152) which give	MENT of this application.  nitted. Note the attached EXA	MINER'S AMENDMENT or NOTICE (	
5. CORRECTED DRAWINGS ( as "replacement sheets") mu  (a) including changes required by the Notice of Draftspers  1) hereto or 2) to Paper No./Mail Date  (b) including changes required by the attached Examiner'  Paper No./Mail Date  Identifying indicia such as the application number (see 37 CFR 1) each sheet. Replacement sheet(s) should be labeled as such in 63. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT	son's Patent Drawing Review - 's Amendment / Comment or  1.84(c)) should be written on the the header according to 37 CFF osit of BIOLOGICAL MATE	in the Office action of e drawings in the front (not the back) of R 1.121(d). RIAL must be submitted. Note the	ŗ
Attachm nt(s)  1. Notice of References Cited (PTO-892)  2. Notice of Draftperson's Patent Drawing Review (PTO-948)  3. Information Disclosure Statements (PTO-1449 or PTO/SB/I Paper No./Mail Date  4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	6.  Interview Su Paper No./N 08), 7.  Examiner's A 8.  Examiner's S 9.  Other	ormal Patent Application (PTO-152) mmary (PTO-413), Mail Date Amendment/Comment Statement of Reasons for Allowance  .  Stephen W. Smoot Patent Examiner Art Unit 2813	

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## **DETAILED ACTION**

This Office action is in response to applicant's amendment filed on 16 May 2006, which has been entered.

## Allowable Subject Matter

- 1. Claims 5-11, 13-21 are allowed.
- 2. The following is an examiner's statement of reasons for allowance:
  - Claims 5-11, 13-20 are allowed because the prior art of record does not teach or suggest, in combination with the other claim limitations, a process for forming a polycrystalline silicon layer that includes forming an amorphous silicon seed by using the steps of patterning an intermediate covering layer, forming an amorphous silicon spacer beside the patterned covering layer, and removing the patterned covering layer; and
  - Claim 21 is allowed because the prior art of record does not teach or suggest, in combination with the other claim limitations, a process for forming a polycrystalline silicon layer that includes defining a first region and a second

region on a substrate, combined with the steps of recrystallizing amorphous silicon in the first region to form a polycrystalline silicon layer and recrystallizing amorphous silicon in the second region to form a microcrystalline silicon layer, wherein Maegawa et al. (US 5,766,989 – from applicant's IDS) (see column 5, lines 46-60) show that a microcrystalline semiconductor layer has the customary meaning, as recognized in the art, of microcrystals dispersed in amorphous silicon and is distinguishable from a polycrystalline semiconductor layer, which has the customary meaning, as recognized in the art, of crystal grains in contact with each other and is further characterized by having grain boundaries.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

## Conclusion

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Stephen W. Smoot whose telephone number is 571-272-1698. The examiner can normally be reached on M-F (8:00 am to 4:30 pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Carl Whitehead, Jr. can be reached on 571-272-1702. The fax phone

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number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

**SWS**